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10/748,901	12/30/2003	Bo-Nam Lee	678-1135 (P10778)	7430
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333 EARLE OVINGTON BOULEVARD			PHAM, TUAN	
SUITE 701 UNIONDALE,	NY 11553		ART UNIT PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/748,901	LEE, BO-NAM				
Office Action Summary	Examiner	Art Unit				
	TUAN A. PHAM	2618				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versilure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10 May 2007.						
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• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3,5,7-10,12 and 14 is/are rejected. 7) ☐ Claim(s) 4, 6, 11, 13, and 15 is/are objected to 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and all accomposed and all accomposed and accomposed accomposed and accomposed accomposed and accomposed accomposed and accomposed accomposed accomposed accomposed and accomposed accomp	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat ority documents have been receiv u (PCT Rule 17.2(a)).	tion No red in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summar Paper No(s)/Mail D					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:					

Art Unit: 2618

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Applicant's remark, filed on 05/10/2007, with respect to the rejection(s)of claim(s) 1-15 under 103(a) have been fully considered and are persuasive. Therefore, the finality of rejection is withdrawn. However, upon further consideration, a new ground(s) of rejection is made over Hayashida (U.S. Pub. No.: 2003/0027582) in view of Tashiro et al. (U.S. Patent No.: 6,975,836).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3, 7-10, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashida (U.S. Pub. No.: 2003/0027582) in view of Tashiro et al. (U.S. Patent No.: 6,975,836, hereinafter, "Tashiro").

Regarding claim 1, Hayashida teaches a method for displaying reception sensitivity on a display screen of a multi-functional mobile terminal with at least two communication functions, comprising the steps of (see figure 1, figure 6, GPS reception sensitivity is associated with GPS mode, CDMA reception sensitivity is associated with CDMA mode):

Art Unit: 2618

a) checking a reception sensitivity of a reception signal for a prescribed communication function among the communication functions (see figure 6, [0046-0051], displaying the checking reception sensitivity of a dual mode mobile for display the CDMA mode), and displaying a reception sensitivity indicator for indicating the reception sensitivity of the prescribed communication function on the display screen (see figure 6, [0064-0051], displaying the checking reception sensitivity of a CDMA mode); and

b) if an operation mode of a communication function other than the prescribed communication function is enabled (see figure 1, dual mode receiver, GPS mode is enabled), checking reception sensitivity of a reception signal for the communication function corresponding to the enabled operation mode (see figures 6-7, the user want to use the GPS function, the mobile will display the GPS reception sensitivity on the display area 10, [0046-0051]), and displaying a reception sensitivity indicator for indicating the reception sensitivity of the communication function corresponding to the enabled operation mode (see figures 6-7, the user want to use the GPS function, the mobile will display the GPS reception sensitivity on the display area 10, [0046-0051]), instead of displaying the reception sensitivity indicator of the prescribed communication function (see figures 6-7, the user want to use the GPS function, the mobile will display the GPS reception sensitivity on the display area 10, not the sensitivity of CDMA mode, [0046-0051]).

It should be noticed that Hayashida fails to teach the reception sensitivity indicator corresponding to the enabled operation mode has a different form from the reception sensitivity indicator of the prescribed communication function, on the display

Art Unit: 2618

screen. However, Tashiro teaches such features (see figure 5, display GPS sensitivity 104 and 103, display mobile sensitivity 106, they are showing as different form, col.7, ln.49-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Tashiro into view of Hayashida in order to show the user to recognize which function is currently supporting of the device.

Regarding claim 2, Hayashida further teaches if the enabled operation mode is terminated, returning to the step (a) of displaying the reception sensitivity indicator of the prescribed communication function (see figure 1, figure 6, dual mode receiver, the user can select mode selection between CDMA and GPS and the sensitivity display will display on the screen corresponding to mode selection).

Regarding claim 3, Hayashida teaches a method for displaying reception sensitivity on a display screen of a multi-functional mobile terminal having a mobile communication function for establishing mobile communication over a mobile telecommunication network and a GPS (Global Positioning System) reception function for receiving a GPS signal from a GPS satellite (see figure 1, figure 6, GPS reception sensitivity is associated with GPS mode, CDMA reception sensitivity is associated with CDMA mode); comprising the steps of:

a) checking a reception sensitivity of a signal received from the mobile

Art Unit: 2618

telecommunication network (see figure 6, [0046-0051], displaying the checking reception sensitivity of a dual mode mobile for display the CDMA mode), and displaying a mobile communication reception sensitivity indicator for indicating a mobile communication reception sensitivity on the display screen (see figure 6, [0064-0051], displaying the checking reception sensitivity of a CDMA mode); and

b) if a GPS mode is enabled (see figures 6-7, the user want to use the GPS function, [0046-0051]), checking a reception sensitivity of the GPS signal (see figures 6-7, the user want to use the GPS function, the mobile will display the GPS reception sensitivity on the display area 10, [0046-0051]), and displaying a GPS reception sensitivity indicator for indicating the GPS reception sensitivity on the display screen, instead of displaying the mobile communication reception sensitivity indicator (see figures 6-7, the user want to use the GPS function, the mobile will display the GPS reception sensitivity on the display area 10, [0046-0051]).

It should be noticed that Hayashida fails to teach the GPS reception sensitivity indicator has a different form from the mobile communication reception sensitivity indicator, on the display screen. However, Tashiro teaches such features (see figure 5, display GPS sensitivity 104 and 103, display mobile sensitivity 106, they are showing as different form, col.7, ln.49-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Tashiro into view of Hayashida in order to show the user to recognize which function is currently supporting of the device.

Art Unit: 2618

Regarding claim 7, Hayashida teaches a method for displaying reception sensitivity on a display screen of a multi-functional mobile terminal with at least two communication functions, comprising the steps of (see figure 1, figure 6, GPS reception sensitivity is associated with GPS mode, CDMA reception sensitivity is associated with CDMA mode):

a) checking a reception sensitivity of a reception signal for a prescribed communication function among the communication functions (see figure 6, [0046-0051], displaying the checking reception sensitivity of a dual mode mobile for display the CDMA mode), and displaying a reception sensitivity indicator for indicating the reception sensitivity of the prescribed communication function on the display screen (see figure 6, [0064-0051], displaying the checking reception sensitivity of a CDMA mode); and

b) upon receiving a user request to change the reception sensitivity (see figures 6-7, the user want to use the GPS function, [0046-0051]), checking a reception sensitivity of a reception signal for a communication function other than the prescribed communication function among the communication functions (see figures 6-7, the user want to use the GPS function, the mobile will display the GPS reception sensitivity on the display area 10, [0046-0051]), and displaying a reception sensitivity indicator for indicating the reception sensitivity of the other communication function, instead of displaying the reception sensitivity indicator of the prescribed communication function (see figures 6-7, the user want to use the GPS function, the mobile will display the GPS reception sensitivity on the display area 10, not the sensitivity of CDMA mode, [0046-0051]).

Art Unit: 2618

It should be noticed that Hayashida fails to teach the reception sensitivity indicator corresponding to the enabled operation mode has a different form from the reception sensitivity indicator of the prescribed communication function, on the display screen. However, Tashiro teaches such features (see figure 5, display GPS sensitivity 104 and 103, display mobile sensitivity 106, they are showing as different form, col.7, ln.49-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Tashiro into view of Hayashida in order to show the user to recognize which function is currently supporting.

Regarding claim 10, Hayashida teaches a method for displaying reception sensitivity on a display screen of a multi-functional mobile terminal having a mobile communication function for establishing mobile communication over a mobile telecommunication network and a GPS (Global Positioning System) reception function for receiving a GPS signal from a GPS satellite (see figure 1, figure 6, GPS reception sensitivity is associated with GPS mode, CDMA reception sensitivity is associated with CDMA mode), comprising the steps of:

a) checking a reception sensitivity of a signal received from the mobile telecommunication network (see figure 6, [0046-0051], displaying the checking reception sensitivity of a dual mode mobile for display the CDMA mode), and displaying a mobile communication reception sensitivity indicator for indicating a mobile

Art Unit: 2618

communication reception sensitivity on the display screen (see figure 6, [0064-0051], displaying the checking reception sensitivity of a CDMA mode); and

b) upon receiving a user request to change the reception sensitivity indicator while displaying the mobile communication reception sensitivity indicator (see figures 6-7, the user want to use the GPS function, [0046-0051]), checking reception sensitivity of the GPS signal (see figures 6-7, the user want to use the GPS function, the mobile will display the GPS reception sensitivity on the display area 10, [0046-0051]), and displaying a GPS a reception sensitivity indicator for indicating the GPS reception sensitivity on the display screen, instead of displaying the mobile communication reception sensitivity indicator (see figures 6-7, the user want to use the GPS function, the mobile will display the GPS reception sensitivity on the display area 10, [0046-0051]).

It should be noticed that Hayashida fails to teach the GPS reception sensitivity indicator has a different form from the mobile communication reception sensitivity indicator, on the display screen. However, Tashiro teaches such features (see figure 5, display GPS sensitivity 104 and 103, display mobile sensitivity 106, they are showing as different form, col.7, ln.49-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Tashiro into view of Hayashida in order to show the user to recognize which function is currently supporting of the device.

Art Unit: 2618

Regarding claim 8, Hayashida further teaches returning to the step (a) of displaying the reception sensitivity indicator of the prescribed communication function when a predetermined time has elapsed after the reception sensitivity indicator of the other communication function has been displayed (see [0046-0052], it will take a second when the user press the key to return to selecting the mode).

Regarding claim 9, Hayashida further teaches a user request to change the reception sensitivity indicator of the other communication function while displaying the reception sensitivity indicator of the other communication function, returning to the step (a) of displaying the reception sensitivity indicator of the prescribed communication function (see figure 1, figure 6, dual mode receiver, the user can select mode selection between CDMA and GPS and the sensitivity display will display on the screen corresponding to mode selection).

Regarding claim 14, Hayashida further teaches returning to the step (a) of displaying the reception sensitivity indicator of the prescribed communication function when a predetermined time has elapsed after the reception sensitivity indicator of the other communication function has been displayed (see [0046-0052], it will take a second when the user press the key to return to selecting the mode).

4. Claims 5 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashida (U.S. Pub. No.: 2003/0027582) in view of Tashiro et al. (U.S. Patent No.: 6,975,836, hereinafter, "Tashiro") as applied to claims 3 and 10 above, and further in view of Lee (U.S. Patent No.: 6,434,484).

Art Unit: 2618

Regarding claims 5 and 12, Hayashida and Tashiro, in combination, fails to teach the GPS reception sensitivity indicator displays a reception sensitivity level corresponding to a number of GPS satellites found by the GPS signal. However, Lee teaches such features (see figure 4).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Lee into view of Hayashida and Tashiro in order to show the user to recognize which satellite is currently supporting of the device.

Allowable Subject Matter

5. Claims 4, 6, 11, 13, and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Pham whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone

Art Unit: 2618

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Technology 2600

Art Unit 2618 May 24, 2007

Examiner

Tuan Pham